U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT

Big River Mine Tailings Site, OU1 -- Area of Response - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VII

Subject: POLREP #21

Big River Mine Tailings Site, OU1 -- Area of Response

07CR

Park Hills, MO

Latitude: 37.8625800 Longitude: -90.5087260

To: Dave Williams, US EPA

From: Janice Kroone, OSC

Date: 12/3/2014

Reporting Period: November 8 - 28, 2014

1. Introduction

1.1 Background

Site Number: 07CR Contract Number: ERRS:EPS71305

D.O. Number:ERRS:0036Action Memo Date:12/6/2010Response Authority:CERCLAResponse Type:Time-CriticalResponse Lead:EPAIncident Category:Removal Action

NPL Status: NPL Operable Unit: 01

Mobilization Date: 4/21/2014 **Start Date:** 4/28/2014

Demob Date: Completion Date:

CERCLIS ID: MOD98112689 RCRIS ID:

ERNS No.: State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) incident category: Inactive Production Facility (Mining-Metals [Pb]).

1.1.2 Site Description

1.1.2.1 Location

The 2014 Big River Mine Tailings Site, OU-1 (Site) action consists of excavation at residential properties where lead in soil exceeds screening levels of 800 milligrams/kilogram (mg/kg) and children younger than 84 months of age reside. The Site is within the boundaries of St. Francois County, Missouri. This response action does not include ongoing actions at other sub-sites (e.g., the Lake Timberline sub-site and the Iron Mountain Lake sub-site). The primary focus of this action lies within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company.

The Site exists within an area of approximately 436 square miles and includes all of St. Francois County with the exception of the former Mine La Motte tract that extends into St. Francois County's southern border just north of the community of Mine La Motte, Missouri. St. Francois County is the location of a former mining region known as the "Old Lead Belt." The area is still referred to as the "Mineral Area". The population center of the area is located approximately 70 miles south of St. Louis. Seven large areas of mine waste covering an area of approximately 110 square miles are present within the Site. The areas included are the Bonne Terre Mine Tailings Site, the Leadwood Mine Tailings Site, the Elvins Mine Tailings Site, the Federal Mine Tailings Site, the Desloge Mine Tailings Site, the National Mine Tailings Site and the Doe Run Mine Tailings Site. Migration of lead-contaminated mine waste from these large tailings piles through human and environmental mechanisms has occurred. This response is not limited to these mine waste areas.

1.1.2.2 Description of Threat

See POLREP #1 (Initial POLREP).

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP #1 (Initial POLREP).

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The Site consists of residential properties in St. Francois County and within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company, Missouri. The EPA discovered surface soils at the Site to have elevated concentrations of lead.

2.1.2 Response Actions to Date

As access agreements are signed, site walks with the EPA On Scene Coordinator, property owner, START and ERRs Contractor are conducted on the properties prior to the excavation. During the site walk, any utility lines and landscaping issues are discussed with the property owner. Also, an instruction sheet on how to care for the sod is discussed and provided to the property owner. Once the sod is placed, the sod is watered by ERRS until it takes root, and then the care of the sod and any hydroseeded areas is turned over to the property owner.

Excavations began on April 29, 2014, at residential properties on the Site. The excavated soil in Bonne Terre is hauled to the Bonne Terre East Repository. Starting on November 10, excavated soil from Park Hills and Desloge is hauled to the Dix Repository in Park Hills. As of November 28, 2014, 132 properties have been excavated:

Date Excavation Completed	Cubic Yards Excavated
05/06/2014	543
05/02/2014	402
05/08/2014	210
05/12/2014	298
05/12/2014	140
05/19/2014	487
05/16/2014	160
05/20/2014	265
05/22/2014	348
05/22/2014	280
05/29/2014	194
06/02/2014	432
06/03/2014	239
06/06/2014	390
06/05/2014	100
	05/06/2014 05/02/2014 05/08/2014 05/12/2014 05/12/2014 05/19/2014 05/16/2014 05/20/2014 05/22/2014 05/22/2014 05/29/2014 06/02/2014 06/03/2014

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9513 08/28/2014 162 9558 08/29/2014 114	9535	08/27/2014	252
9513 08/28/2014 162 9558 08/29/2014 114	9025	08/28/2014	196
9558 08/29/2014 114			
9503 09/04/2014 406			
	9503	09/04/2014	406

9561	09/08/2014	318
9550	09/04/2014	198
9556	09/03/2014	134
1201	09/05/2014	252
9557	09/04/2014	128
9548	09/08/2014	288
9567	09/08/2014	344
9510	09/12/2014	624
9540	09/12/2014	300
9141	09/17/2014	1,148
244	09/14/2014	426
9063	09/15/2014	162
9536	09/17/2014	398
9077	09/17/2014	276
9226	09/22/2014	438
9560	09/19/2014	522
9056	09/19/2014	144
9065	09/23/2014	936
9057	09/24/2014	300
9554	09/23/2014	226
9421	09/24/2014	102
41	09/26/2014	504
1280	09/26/2014	364
9055	09/25/2014	150
9391	09/26/2014	300
9081	09/29/2014	210
9502	10/08/2014	994
9020	10/01/2014	216
9374	10/01/2014	198
9495	10/02/2014	222
9563	10/02/2014	78
9514	10/22/2014	840
9509	10/22/2014	574
9326	10/22/2014	438
9582	10/20/2014	274
9500	10/23/2014	732
9297	10/30/2014	552
9572	10/20/2014	502
9570	10/27/2014	336
9501	10/31/2014	1,168
	10/29/2014	
158		318
1545	10/31/2014	140
9579	11/03/2014	300
9379	11/06/2014	396
1710	11/12/2014	1,156
213	11/11/2014	902
9205	11/07/2014	258
2295	11/10/2014	202
9568	11/11/2014	234
9595	11/19/2014	498
9059	11/14/2014	823
9131	11/19/2014	834
128	11/25/2014	1,372
1131	11/21/2014	502
1833	11/21/2014	270
9153	11/25/2014	408

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

See POLREP #6.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Lead-Contaminated Soil (ERRS contract; excavations conducted during 2014)	Solid	44,328 yd	N/A	N/A	Bonne Terre East (Tailings Pile) Repository
Lead-Contaminated Soil (ERRS contract; excavations conducted during 2014)	Solid	5,563 yd ³	N/A	N/A	Dix Repository (Tailings) Park Hills
Lead-Contaminated Soil (ERRS contract; excavations conducted prior to 2014)	Solid	128,706 yd ³	N/A	N/A	Desloge Tailings Pile
Lead-Contaminated Soil (Site-specific contract; excavations conducted prior to 2014)	Solid	62,583 yd ³	N/A	N/A	Bonne Terre East Tailings Pile
Total		241,180 yd ³			

NOTE: The "Lead-Contaminated Soil (Site-specific contract; excavations conducted prior to 2014)" was previously reported as 42,531 cubic yards in POLREPs numbered 1-17; the correct amount is 62,583 cubic yards. The correction is made in the table above.

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Excavate, backfill, sod and hydroseed properties.

2.2.1.2 Next Steps

Continue to excavate, backfill and restore residential properties which meet the excavation criteria for this action. Once sod is established, the EPA obtains a sign-off that the property owner is satisfied with their yard and has no outstanding issues.

2.2.2 Issues

Heavy rains have slowed excavation and the ability to access backfill has been hindered.

2.3 Logistics Section

All logistical issues are being addressed by the EPA and EPA contractors.

2.4 Finance Section

2.4.1 Narrative

The total EPA costs for this removal action are based on full cost accounting practices.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
2014 ERRS - Cleanup Contractor	\$3,950,000.00	\$3,700,550.55	\$249,449.45	6.32%
START (RPM tracking these costs)	\$740,000.00	\$715,000.00	\$25,000.00	3.38%
Intramural Costs				
2014 USEPA - Direct	\$111,000.00	\$46,612.00	\$64,388.00	58.01%
2014USEPA - InDirect	\$330,000.00	\$51,644.00	\$278,356.00	84.35%
Total Site Costs	\$5,131,000.00	\$4,513,806.55	\$617,193.45	12.03%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

No significant safety issues were reported during this operational period.

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

At this time there is no PIO assigned to this site.

2.7.2 Community Involvement Coordinator

At this time there is no CIC assigned to this site. See POLREP #6 for information on previous Public Availability Sessions and other details on community outreach.

3. Participating Entities

3.1 Unified Command

The limited scope of the response does not warrant a full Incident Management Team (IMT) or Unified Command. Operations, safety, logistics, planning and finance functions are primarily being handled by contractor staff.

3.2 Cooperating Agencies

Cooperating and assisting agencies include:

City of Park Hills City of Leadwood City of Bonne Terre City of Doe Run City of Desloge

Missouri Department of Natural Resources

Missouri Department of Health and Senior Services

4. Personnel On Site

EPA ERRS START

5. Definition of Terms

AOC Area of Contamination / Administrative Order on Consent

AOR Area of Response

ATSDR Agency for Toxic Substances and Disease Registry

CAMU Corrective Action Management Unit

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EPA Environmental Protection Agency

ERRS Emergency & Rapid Response Services Contract
MDHSS Missouri Department of Health and Senior Services

MDNR Missouri Department of Natural Resources

mg/L milligrams per Liter
mg/kg milligrams per kilogram
NCP National Contingency Plan
ng/m3 nanograms per cubic meter
NPL National Priorities List
OSC On-Scene Coordinator

OSHA Occupational Safety and Health Administration

OU Operable Unit Polrep Pollution Report

PPE Personal Protective Equipment

PPM Part Per Million

PRP Potentially Responsible Party

RCRA Resource Conservation and Recovery Act

RPM Remedial Project Manager

Sitrep Situation Report

START Superfund Technical Assessment and Response Team

SS Site Specific SU Sample Unit

TCLP Toxicity Characteristic Leaching Procedure

XRF X-Ray Fluorescent Spectrometer

yd3 Cubic Yard

6. Additional sources of information

6.1 Internet location of additional information/report

For additional information, please refer to http://www.epaosc.org/BRAOR

6.2 Reporting Schedule

The Pollution Report (POLREP) serves as the OSC's record of the response actions, notifications and decisions made to support the response action. POLREPs will be completed and posted as conditions warrant and at the conclusion of site activities.

7. Situational Reference Materials

Please refer to the documents section of http://www.epaosc.org/BRAOR for maps, data, diagrams, etc.